



Title: NON-SPECIFIC SENSOR ARRAY DETECTORS
Inventor(s): Gregory STEINTHAL et al.
Appl. No.: 10/624,194

FIG. 1a

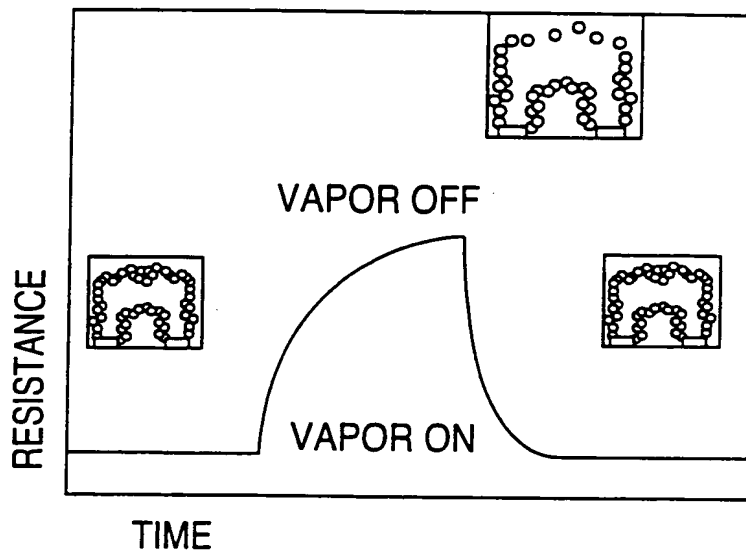


FIG. 1b

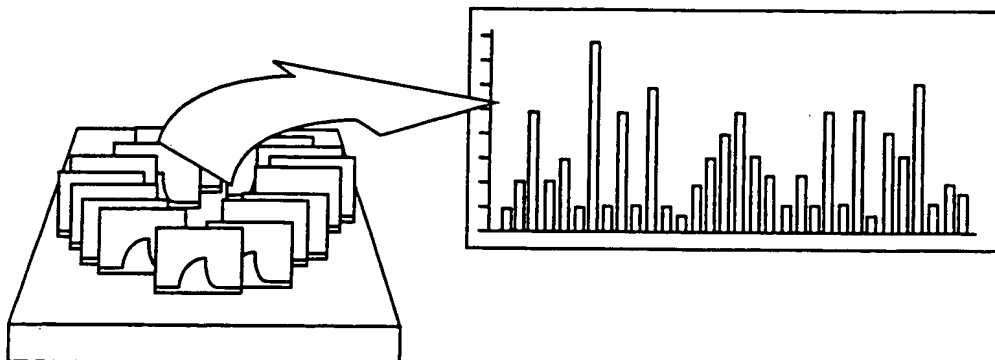


FIG. 2

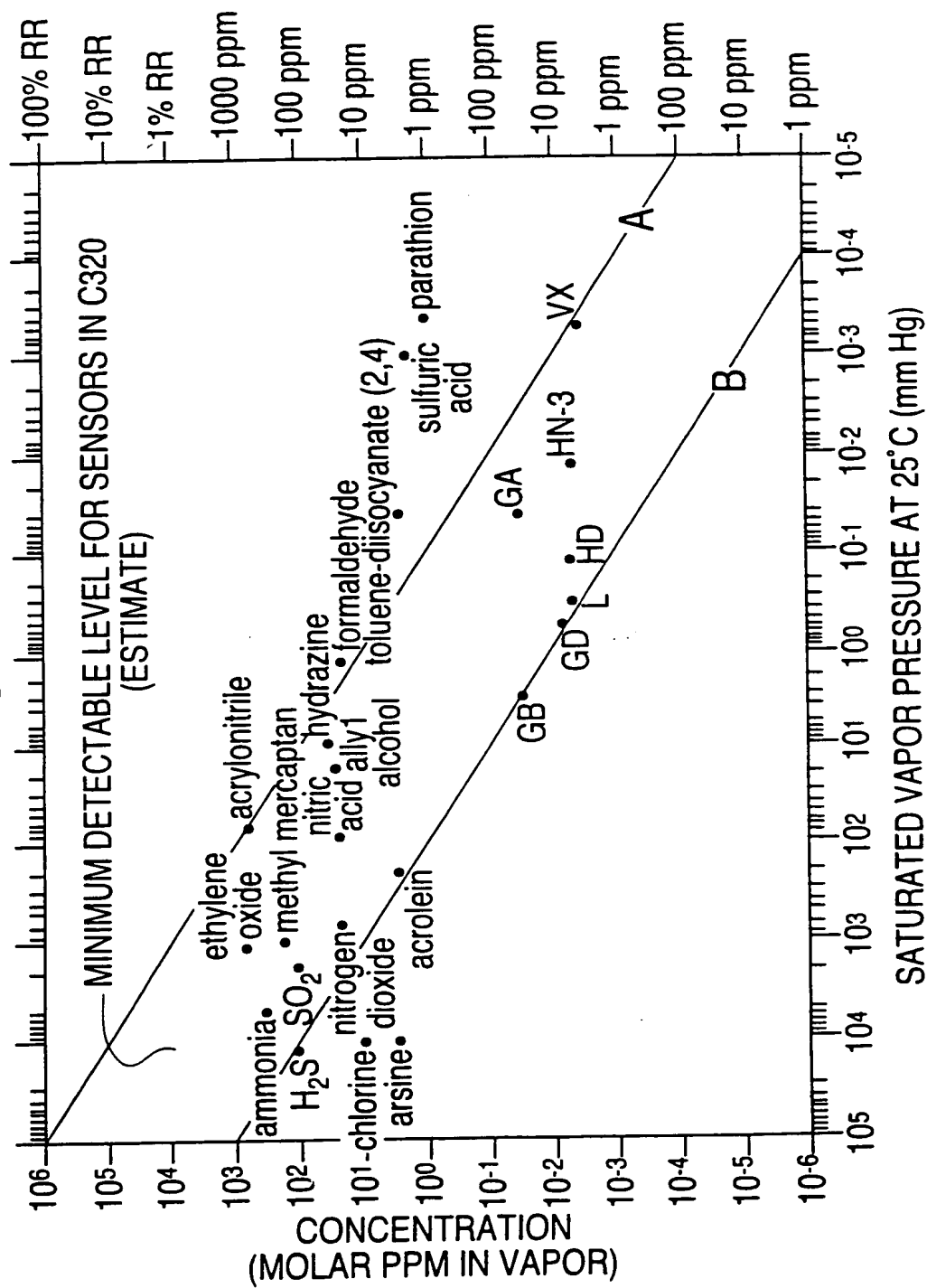


FIG. 3a

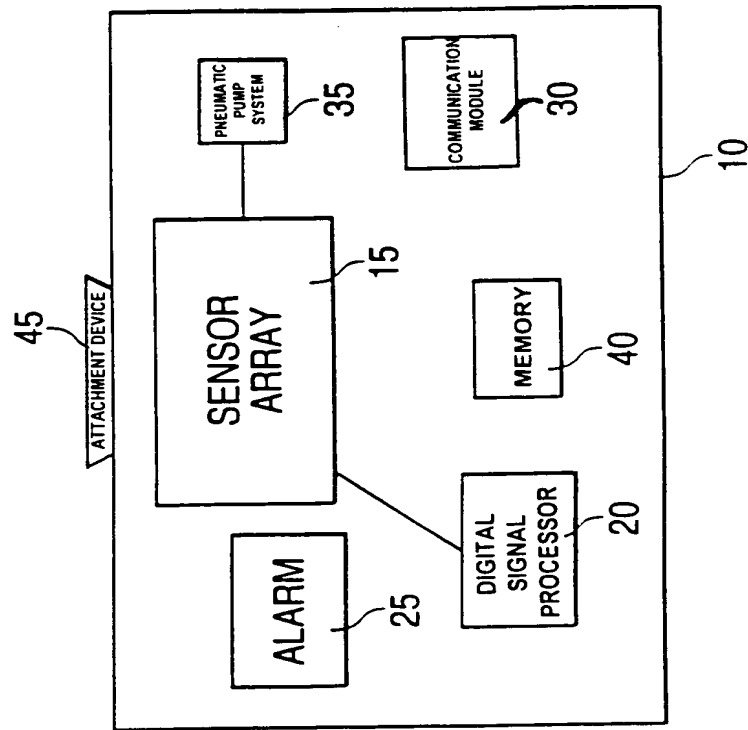


FIG. 3b

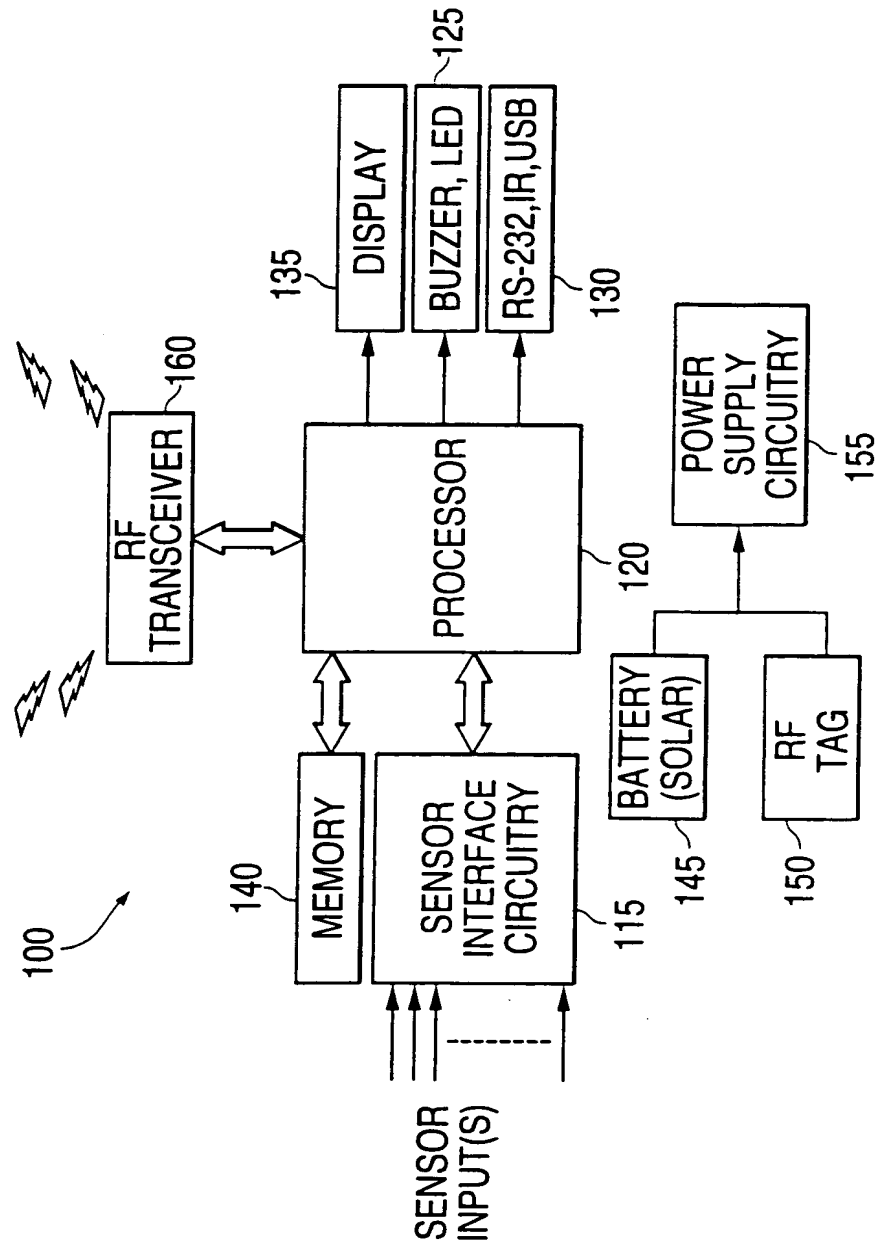
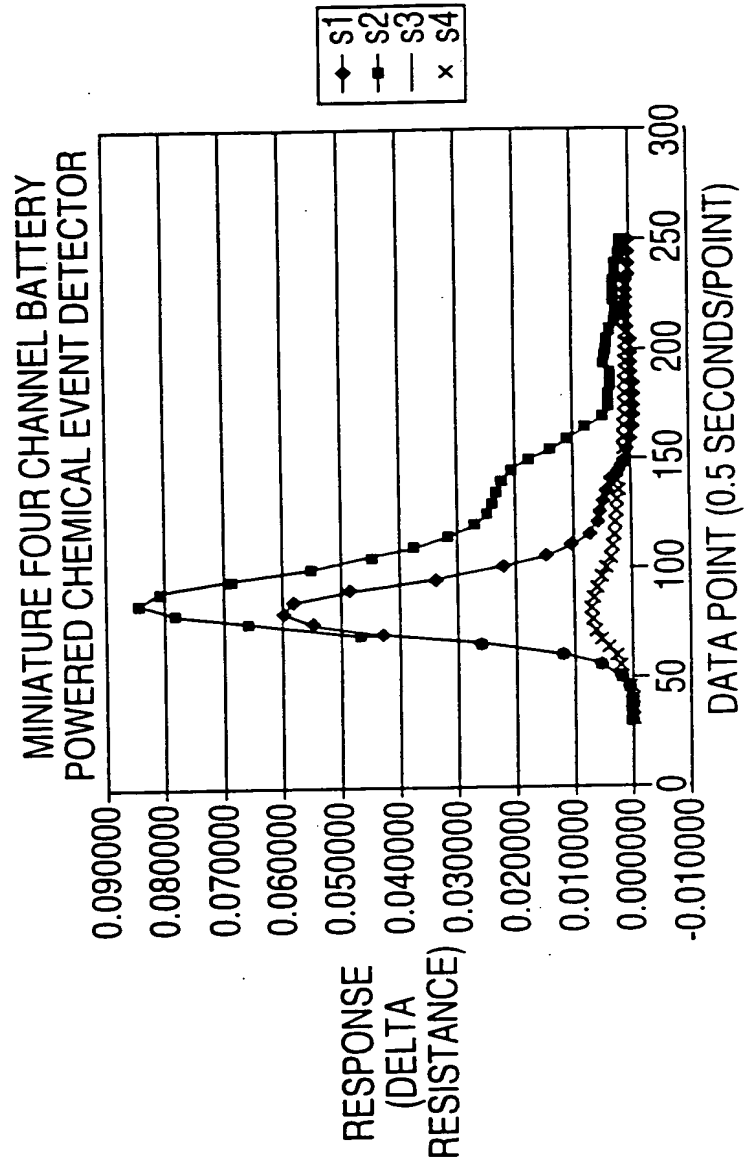


FIG. 4



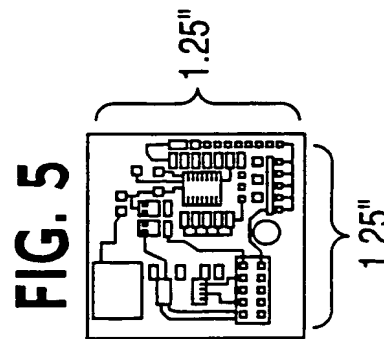


FIG. 6

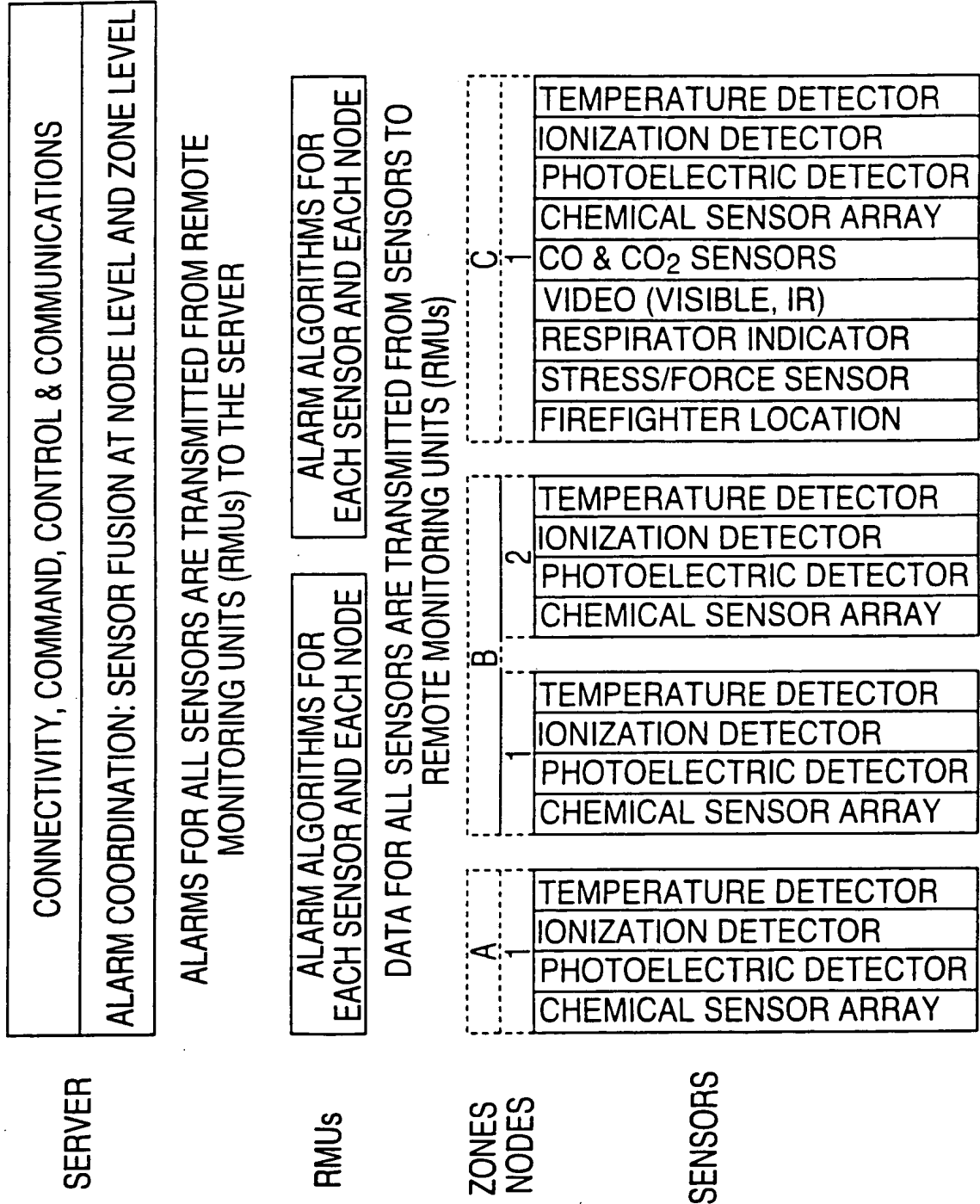
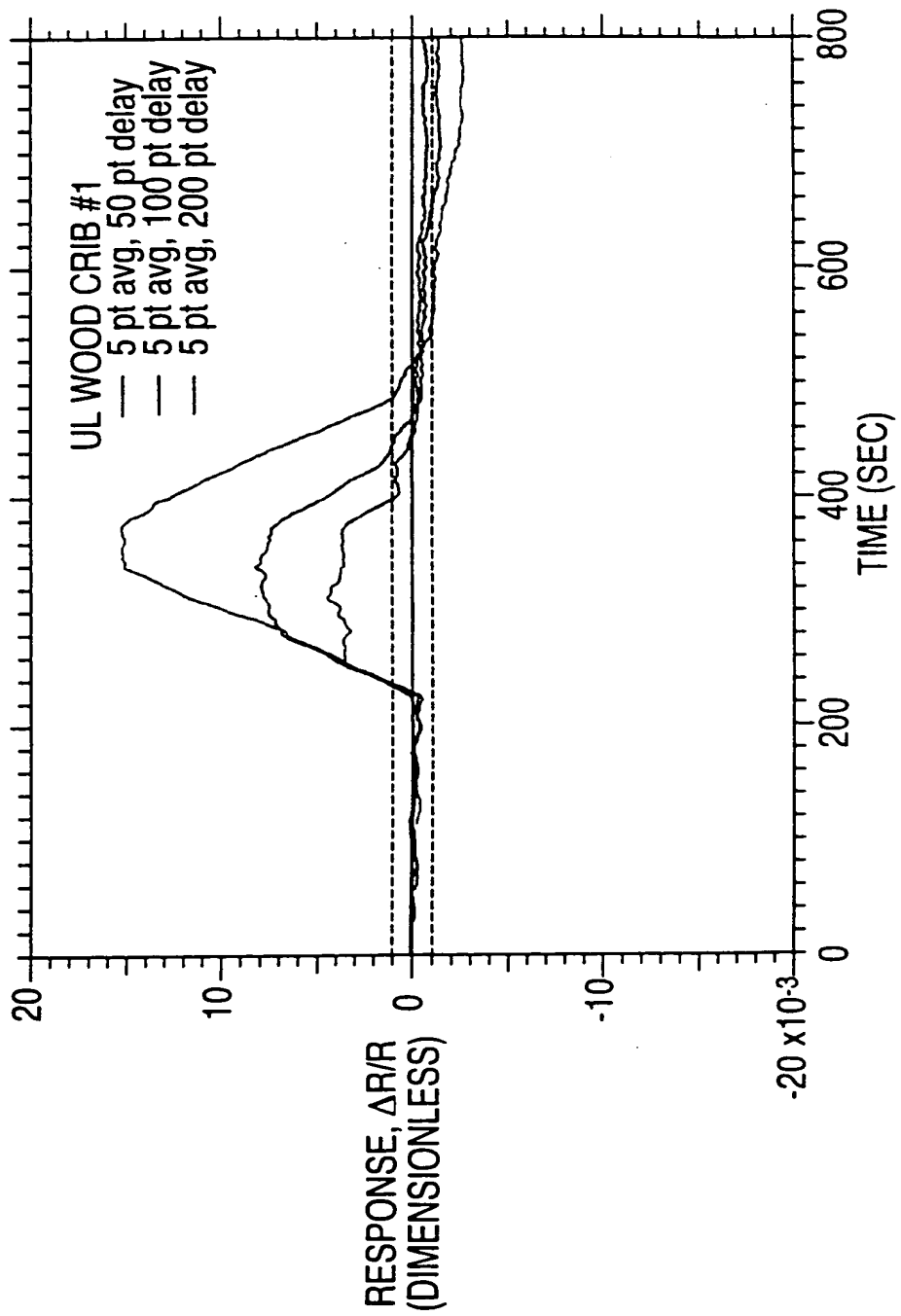


FIG. 7



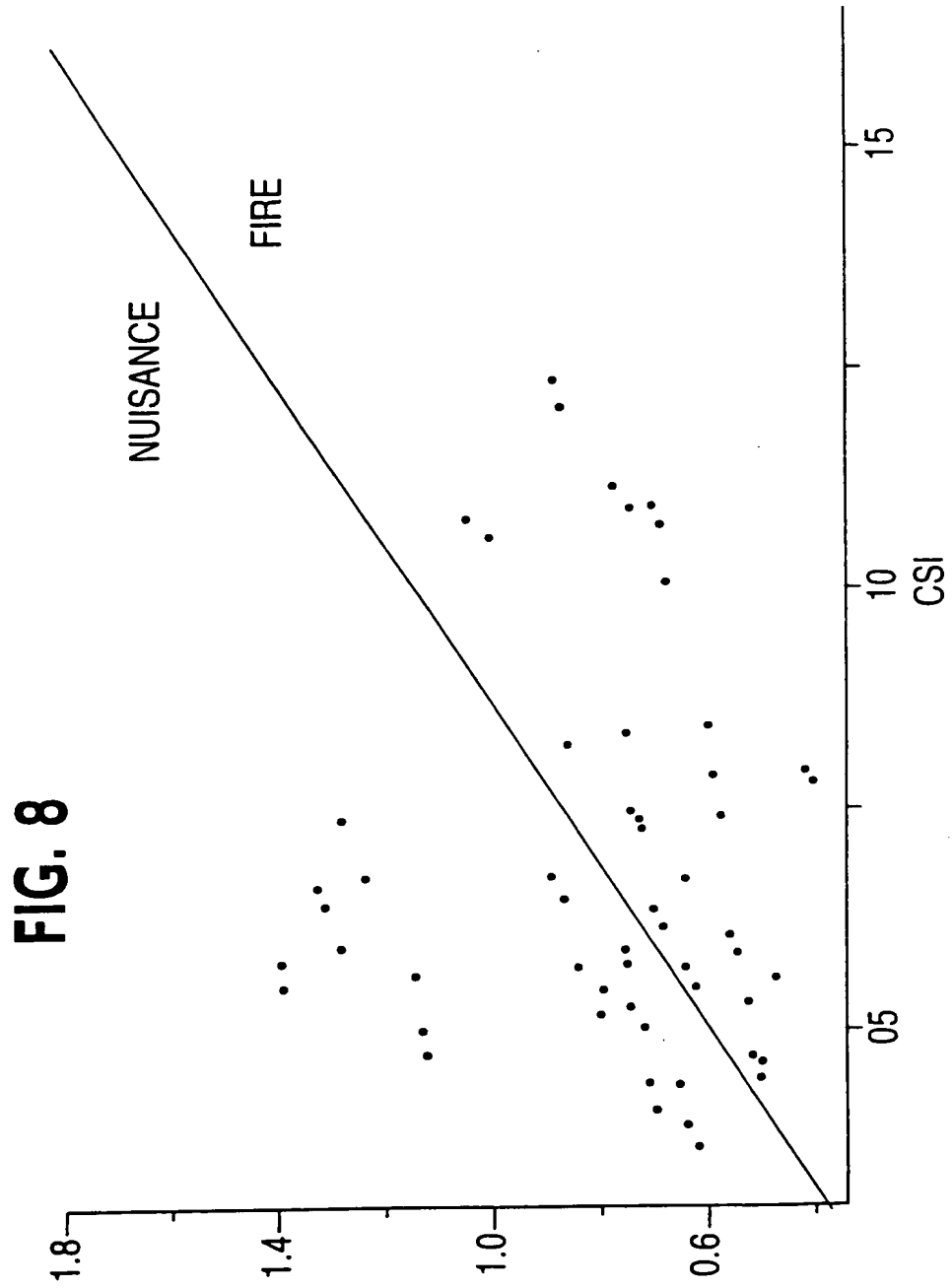


FIG. 9

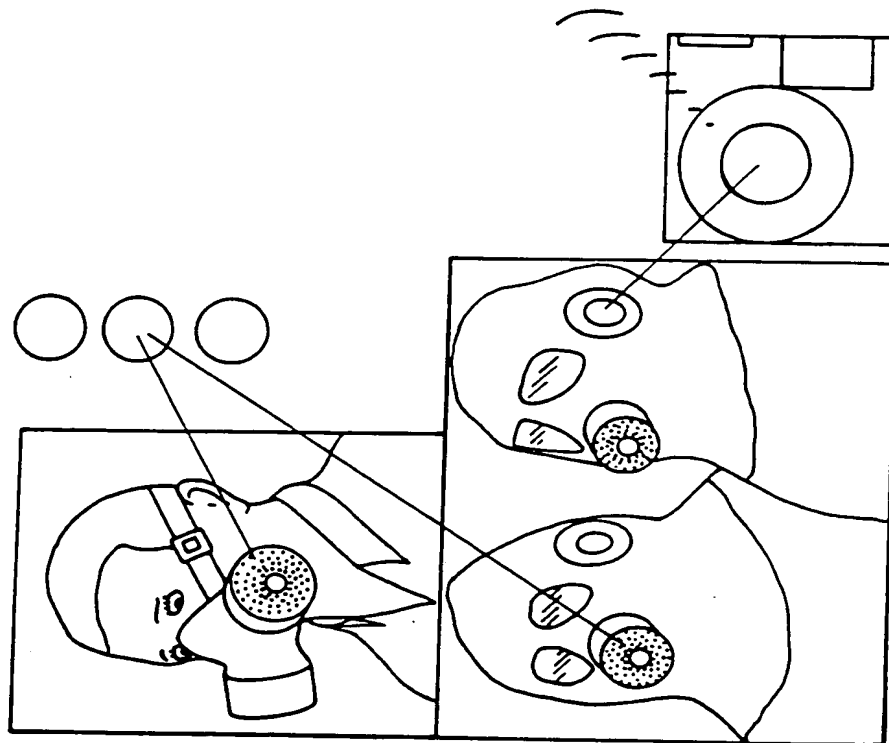


FIG. 10

DISTRIBUTED SENSOR
NETWORKS AND NOTIFICATION

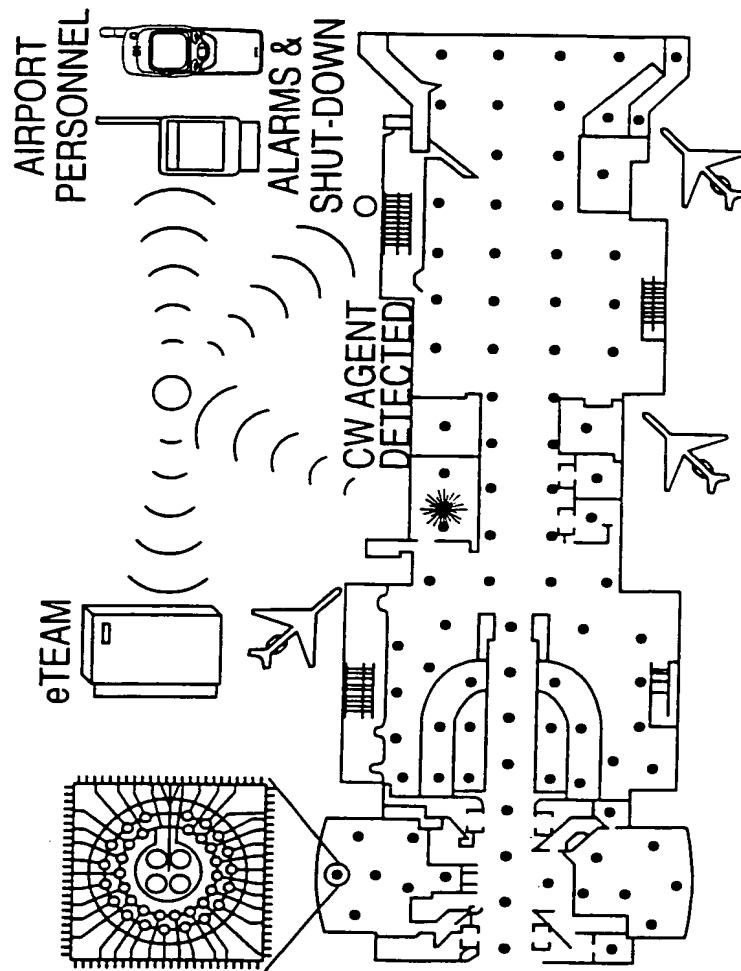


FIG. 11

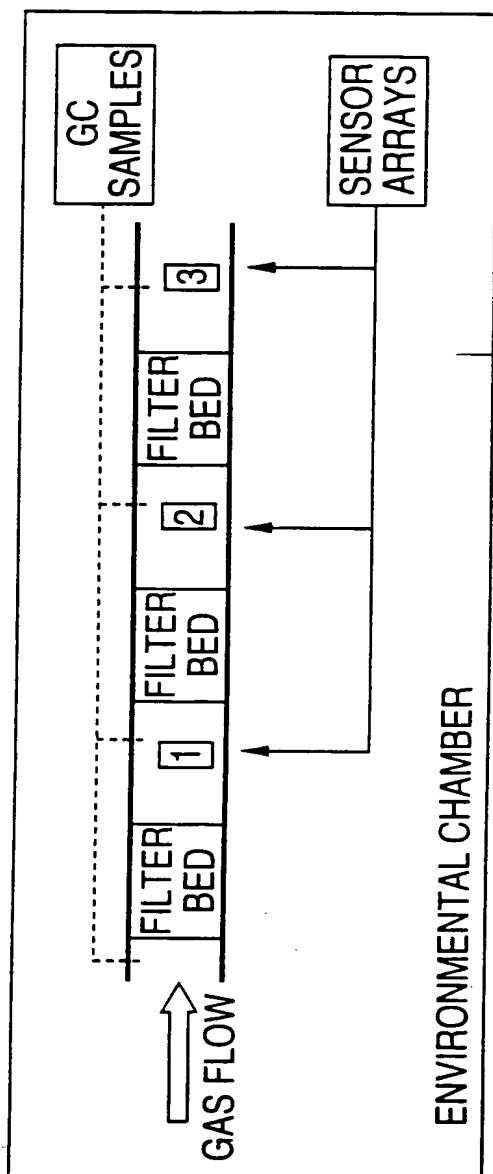


FIG. 12

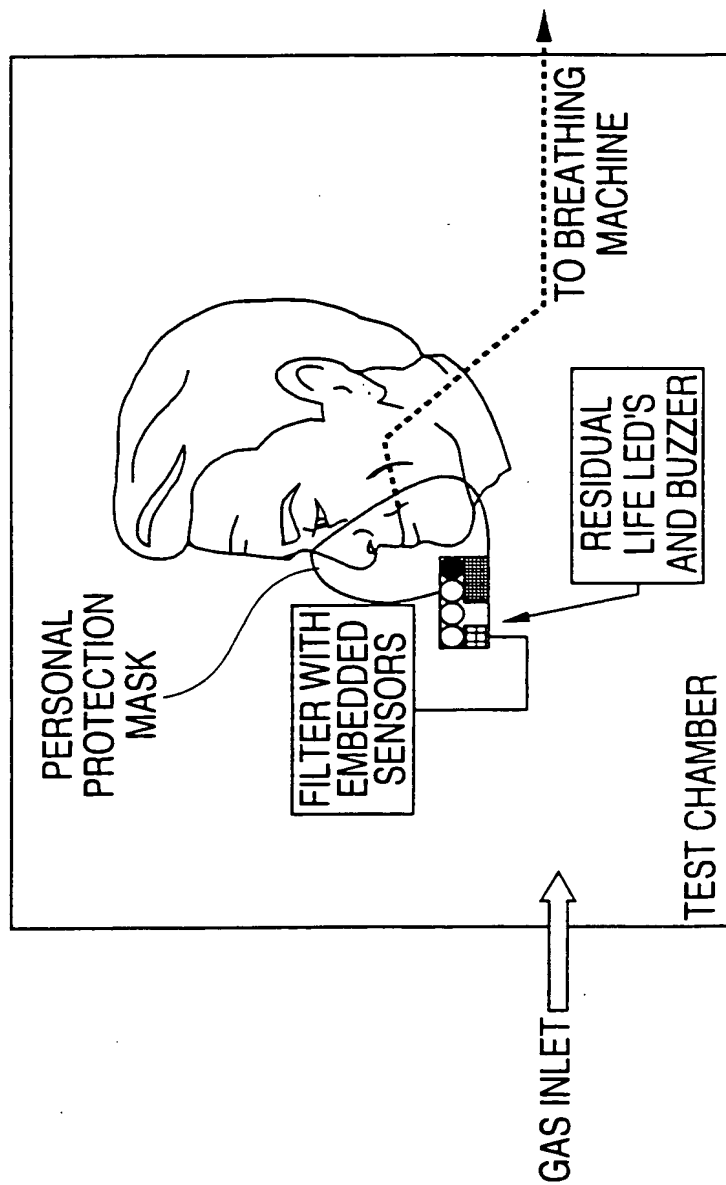


FIG. 13

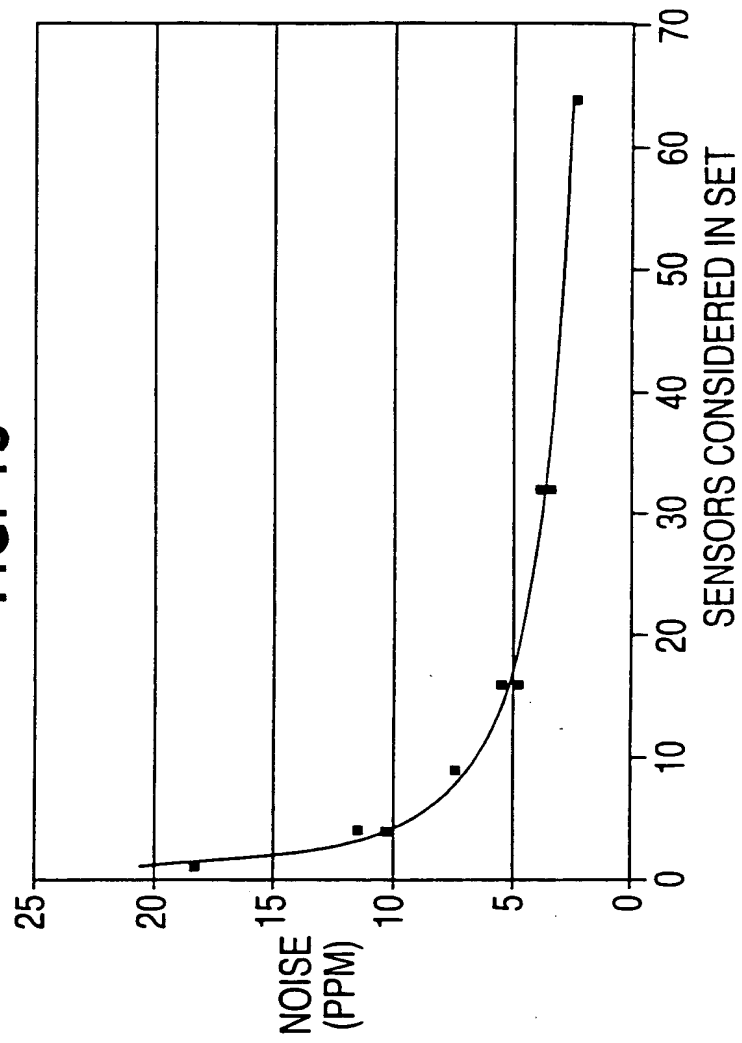


FIG. 14

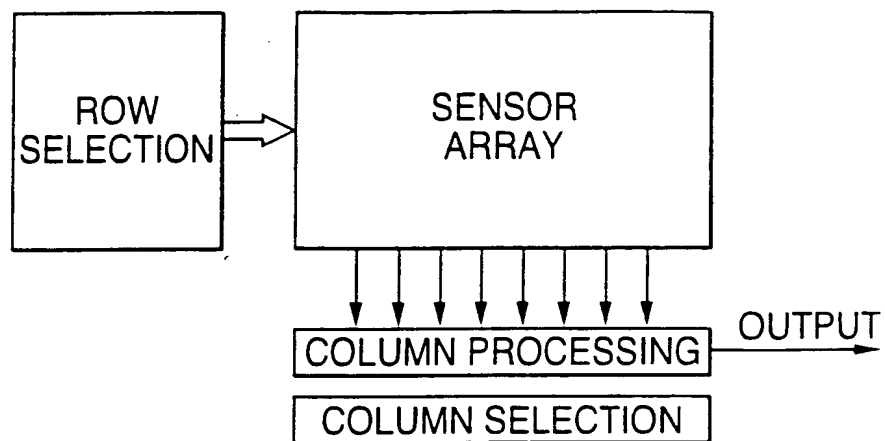


FIG. 15

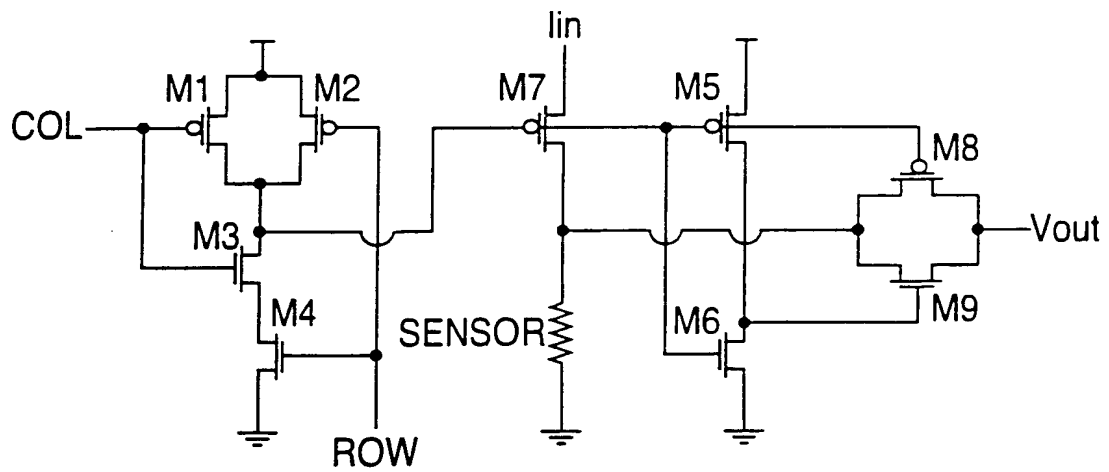


FIG. 16

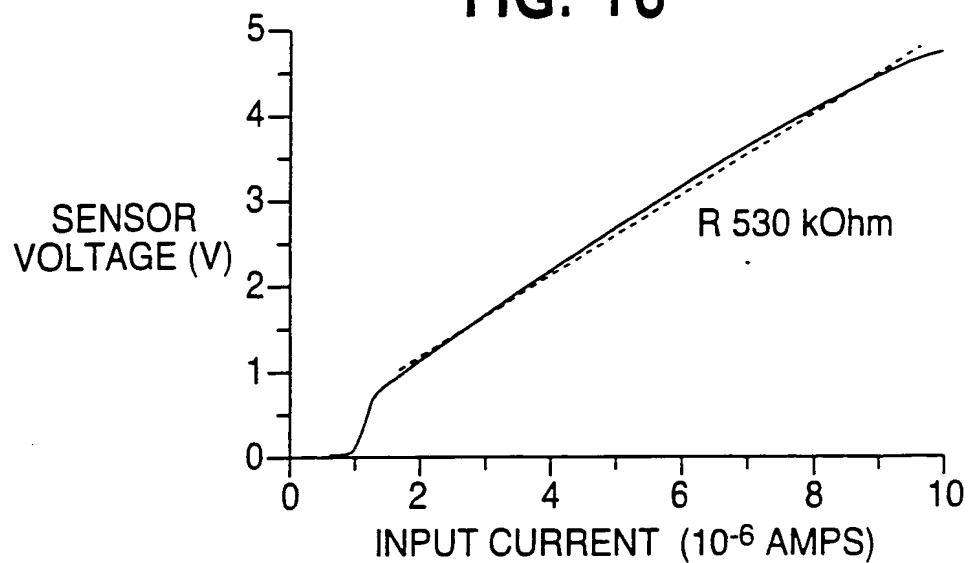


FIG. 17

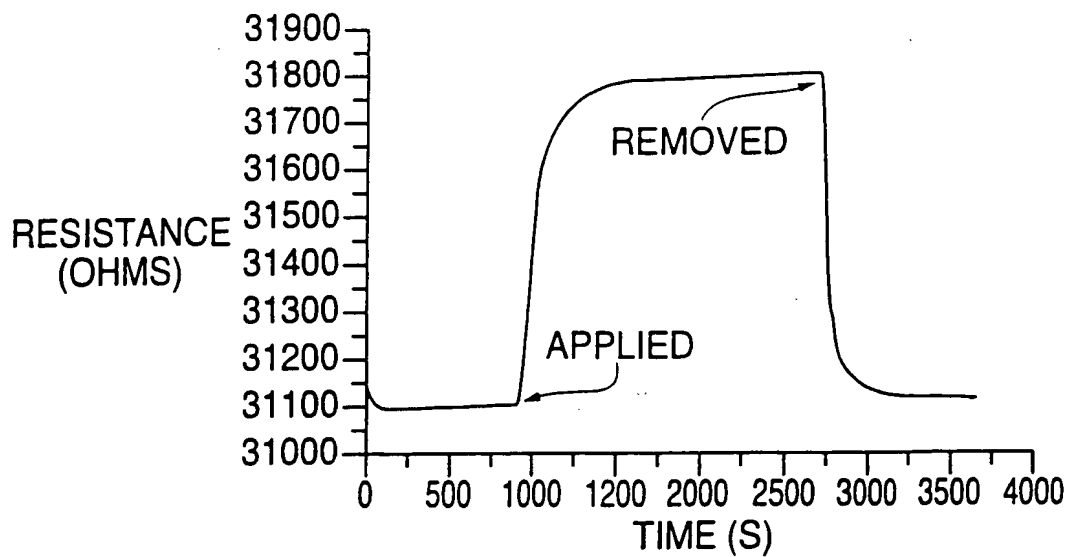
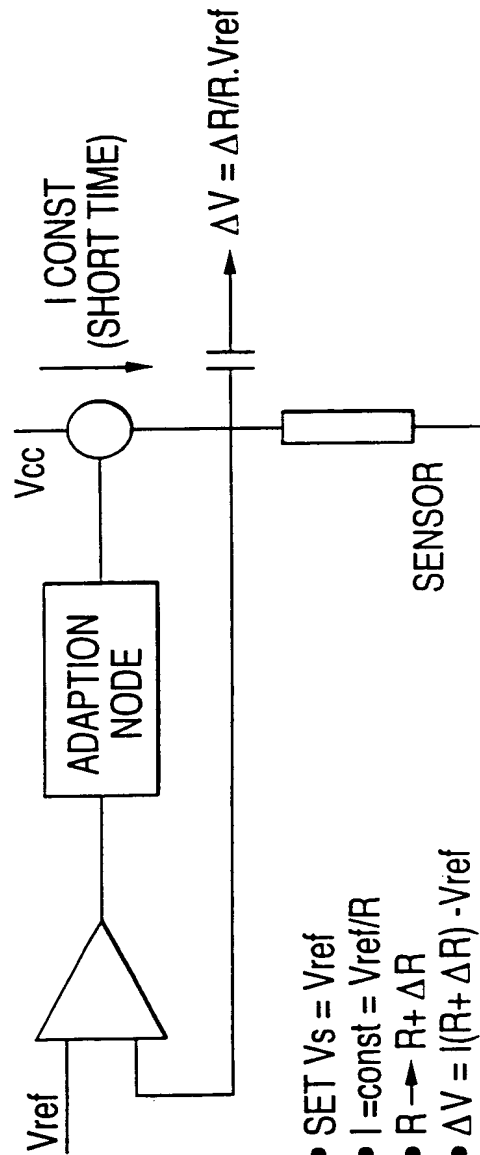


FIG. 18



- SET $V_s = V_{ref}$
- $I = const = V_{ref}/R$
- $R \rightarrow R + \Delta R$
- $\Delta V = I(R + \Delta R) - V_{ref}$
- $\Delta V = V_{ref}(1 + \Delta R/R) - V_{ref}$
- $\Delta V = \Delta R/R \cdot V_{ref}$

FIG. 19

Sample #	Treatment	Solvents	Particle Size nm
6537-57b	Poly(isobutylene) on BP700	Isopar G	150
8847-9a	Polypropylene glycol on BP700	Xylene	180
6537-40	Poly(acrylic ester) on BP700	Ethanol	210
6537-51	Poly(acrylic acid) on BP700	water	210

FIG. 20a

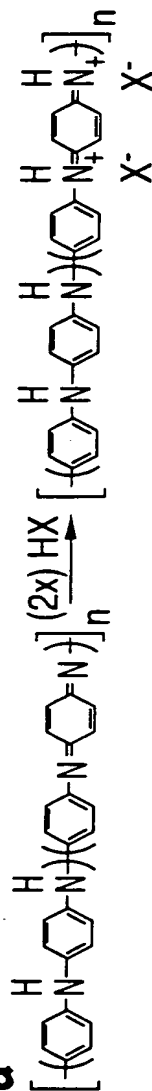


FIG. 20b

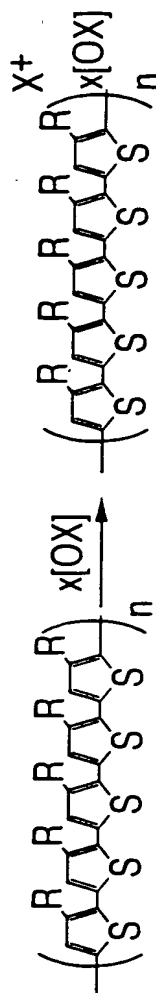


FIG. 21

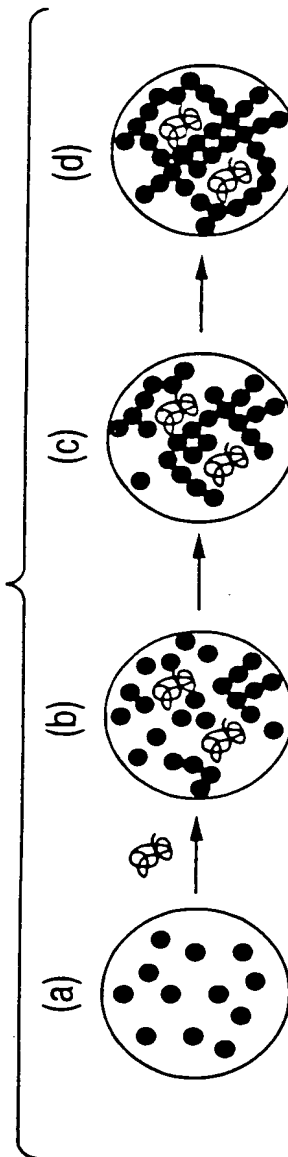


FIG. 22

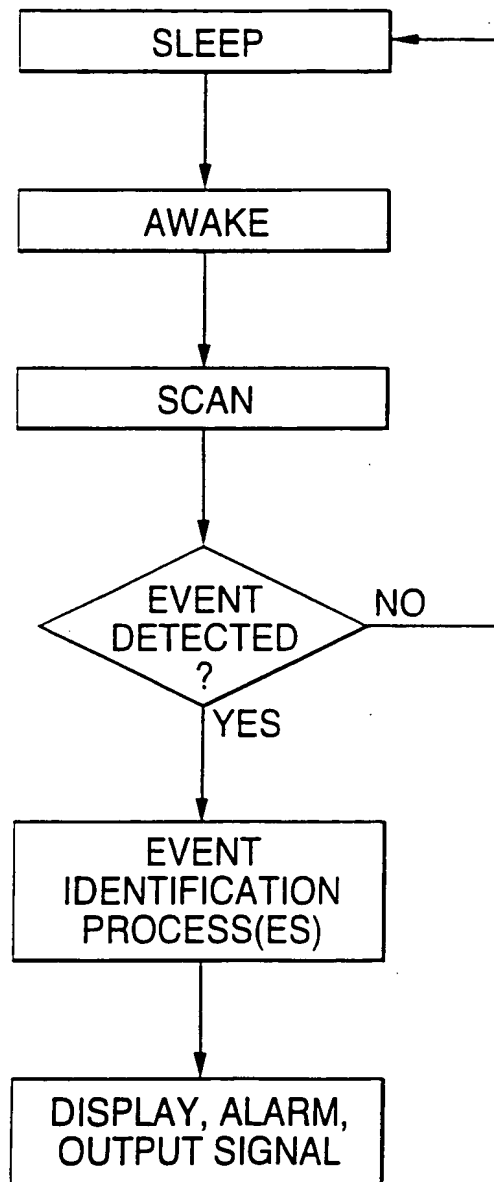


FIG. 23

